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(71) Applicant and

(72) Inventor: **BUCKNELL, John, Wentworth** [AU/AU]; 21  
Jenkinson Street, Indooroopilly, QLD 4068 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **VAN DONGEN, Charles, Cornelius** [AU/AU]; 4 Chamouni Court, Frankston, VIC 3199 (AU). **CHAMPION, Lindsay, Alfred** [AU/AU]; 1 Grigg Avenue, Vermont, VIC 3133 (AU). **EVANS, Stuart, Justin** [AU/AU]; 142 Bambra Road, Caulfield, VIC 3162 (AU).

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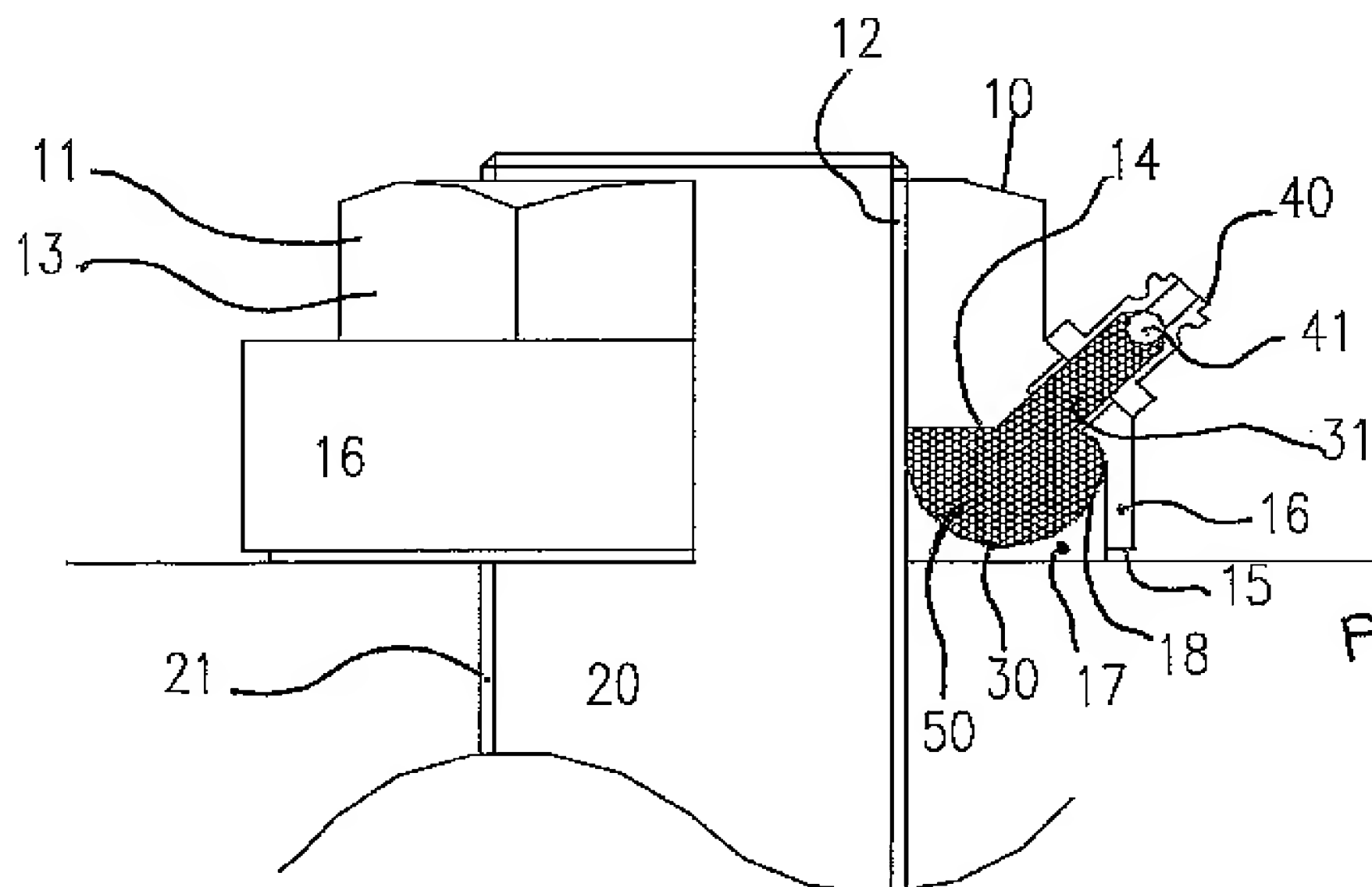
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(54) Title: HYDRAULICALLY ASSISTED FASTENERS



(57) Abstract: Hydraulically assisted fastener (10) comprises a body (11) with a central bore (12) to engage a connector element (20) and with an annular recess (14) opening outwards to an end surface (15). Annular thrust member (17) fits into and seals the recess (14). Charging medium (50) is injected under pressure into annular chamber (30) defined by recess (14) and member (17) and moves body (11) relative to member (17) to tension element (20). Medium (50) sets in chamber (30) to maintain the tension in element (20). Element (20) may be a bolt or stud, body (11) can be a nut and member (17) can be a plan washer. Medium (50) can be a curable viscous paste, a suspended solid in a self-setting compound or a particulate solid which behaves as a fluid. Suitable materials include graphite, and lead, copper or steel balls.

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